CDC Health Information Innovation Consortium (CHIIC)
February Forum Meeting Notes

2500 Century Center, Room 1200 + Adobe Connect + Phone Bridge
February 25, 2016, 2:00-3:00PM

Meeting Agenda

1) Introduction – Brian Lee – 10 minutes

2) Development of Data Technical Standards and Gap Analysis and for the Paul Coverdell National Acute Stroke Registry 30 day Follow-Up Data – Sallyann Coleman King and Jason Bonander – 20 minutes
The Paul Coverdell National Acute Stroke Registry initiated in 2004 as a state-based registry to measure and track acute stroke care with a focus on quality improvement to improve inpatient care. Through the current work in transitions of care, there was a need for a more comprehensive understanding of what occurs in the early days to weeks after patients leave the hospital. This project supported an evaluation and gap analysis of the current data collection tools being utilized in several states. The technical specifications created through this funding could be tailored to suit the needs of other programs across the agency for use in their funding announcements thereby ensuring accountability, reducing redundancies, addressing system usability and data security, improving the quality of surveillance data, and providing maximal impact.

3) Dietary Supplement Imaging in the National Health and Nutrition Examination Survey – Jerry Del Rosso – 20 minutes
The project explored the use of digital imaging technology to capture supplement container information in a set of photographic images. In addition, technology has advanced to where optical character recognition (OCR) of non-flat small documents can correctly identify 92.4% of characters. This advance allows for the supplement name, manufacturer, address, and nutrition label printed the supplement container to be captured electronically, eliminating the need for manual entry. This would greatly reduce the effort by NHANES program staff from having to obtain the label from the manufacturer, distributor or internet.

4) Discussion & Suggestions – 10 minutes

Attendees

The meeting was well attended – seventy three people attended in person or via webinar. Attendance included people from various CDC CIO's and an organization: NCCDPHP, NCEZID, NCHHSTP, OCOO, OPHPR, OPHSS, CSELS, NCBDDD, NCEH/ADTSR, NCHS, and CACI. Other participants attended the Adobe Connect session, but only their name was captured and not their location or organization.

Introduction – Brian Lee

The first quarterly forum was held on May 13, 2014. To date, CHIIC has hosted eight forums with six hundred and ninety six people attending. The success of the quarterly forums is the result of many people, particularly, the CHIIC Advisory Group: Barry Rhodes (National Center for Emerging and Zoonotic Infectious Diseases), Cyrus Shahpar (Center for Global Health), Thom Sukalac (National Center for HIV/AIDS, Viral Hepatitis, STD and TB Prevention) and Tom Savel (Center for Surveillance, Epidemiology and Laboratory Services); in addition to new staff member, Maria Michaels (Office of Public Health Scientific Services), Angela Soyemi (CACI) and CACI support team Dennis Jarosz, Bob Shepherd, and Randy Mitchell.

Two presentations were the focus during the February 25th session of the CDC Health Information Innovation Consortium (CHIIC) Forum. The first presentation, Development of Data Technical Standards and Gap Analysis and for the Paul Coverdell National Acute Stroke Registry 30 day Follow-Up Data, was presented by Sallyann Coleman King and Jason Bonander in the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), and the second presentation, Dietary Supplement Imaging in the National Health and Nutrition Examination Survey, was presented by Jerry Del Russo and Jaime Gahche in the National Center for Health Statistics (NCHS). Both projects were funded by the CDC Surveillance Strategy as part of the 2014 CDC Surveillance Strategy Innovation Project Portfolio.

Presentation 1 - Development of Data Technical Standards and Gap Analysis and for the Paul Coverdell National Acute Stroke Registry 30 day Follow-Up Data – Sallyann Coleman King and Jason Bonander

Sallyann and Jason presented an overview of the epidemiology of stroke, the data landscape, and how they made a decision on the right tool to implement for post-hospital follow-up data collection. The project included a collaboration with the Informatics Office in the NCCDPHP and Northrop Grumman. The Paul Coverdell program helps to improve the stroke quality of care in pre-hospital and post-hospital care. With state health departments in mind, the project goals were to offer a common tool that health departments could use to collect post-hospital data, make it easy to use, provide secure transfer of data, be inexpensive, and if feasible, build the outcome of this project as an option into an upcoming FOA. The EPI Info 7 suite of products was the tool that came out as the right solution in meeting the goals of the project.

To view the presentation, click here.

Presentation 1 Q&A

As you talk to the grantees (state health departments), do you have a sense of how many will use this approach versus use their own?

[Sallyann] Good question and one that we're still trying to determine. Our FOA is focused on trying to look at the entire system of care. Part of the FOA is linking patients from the moment they call EMS until after they are discharged, and identify gaps that exist. This has been a large challenge for our grantees. We're still in the problem solving phase of what they're going to do. We have an upcoming workshop and one of the sessions will be an Informatics session where they can share what they think they might do and where they see their key challenges are, how they see moving through them and how we may tailor this recommendation or identify other systems that may be utilized by grantees. One of the key challenges, while Epi info is a great tool, is that it's another system. Right now grantees are using Get with the Guidelines and they need to think about linking data. So if they have to think of another system to use, it may be hard for them to contemplate, but we'll work with them on this issue.

It almost sounds like Paul Coverdell is a surveillance system versus a Registry; where do you see the differentiation between the surveillance system and the registry?

[Sallyann] We used our data for quality improvement, and that is the key focus of why the data is collected and utilized.

Presentation 2 - Dietary Supplement Imaging in the National Health and Nutrition Examination Survey (NHANES) – Jerry Del Russo and Jaime Gahche

Jerry and Jaime presented an overview of their project, which is to introduce digital images technology to capture supplement container information in the National Health and Nutrition Examination Survey (NHANES). They provided information about their current supplement collection process, a brief description of NHANES, what products they chose to evaluate, how this project will help improve data collection, and their proof of concept study using the IPEVO Ziggi-HD Plus camera. The objective of the proof of concept study is to determine if a pilot study should be conducted in NHANES, assess the feasibility of integrating the IPEVO camera with the Blaise survey software, conduct a user test to assess the accuracy of data collected, timing, the protocol for taking pictures, and logistics of use, and survey design implications (i.e. importing data into the questionnaire). The project has completed development and is embarking on testing, user testing, analyzing data, and then aiming to pilot in NHANES by September 2016.

To view the presentation, click here.

Presentation 2 Q&A

You talked about the current accuracy is that in 20% of them you don't get a match, is there an acceptable improvement that you're looking for in the pilot for success versus non-success? [NHANES question]

[Jaime] I would like to improve it up to 20%, but at least 15%, I think it's possible with the images because we're asking them to take four images of a label, so even if the back of the label didn't image perfectly we'd still have a clear name to get the product label from the manufacturer.

Would it be possible to share the results from the user testing you're conducting next month with the CHIIC? [NHANES question]

[Jaime] Yes, absolutely.

Items of interest

- Next Forum – May 17, 10-11amEDT – STD Clinical Decision Support, Million Hearts 2015 CHIIC project lessons learned
- Zika data repository on Github: https://github.com/cdcepi/zika
- Health Information Management Systems Society Annual Conference Live Streaming Feb 29-Mar 4 [link] (CE credits available)
- CDC Ideation Catalyst (I-Catalyst) Mar 24-25, registration due Mar 4 [link]
- Places & Spaces: Mapping Science Exhibit at David J. Center CDC Museum through Jun 17 [link]
- Public Health Informatics Institute EHR Toolkit site live [link]
- Switch over to CDC.gov web site for CHIIC from phConnect.org [link] – Thanks phConnect!

Additional information

If you would like to review other CHIIC projects visit the CHIIC site on this link: http://www.cdc.gov/ophss/chiic/project_portfolio.html

Please contact chiic@cdc.gov to be added to the CHIIC distribution list and future communication.